

Title (en)

METHODS AND COMPOSITIONS FOR TREATING GASTROINTESTINAL STROMAL TUMOR(GIST)

Title (de)

VERFAHREN UND ZUSAMMENSETZUNGEN ZUR DIAGNOSE VON GASTROINTESTINALEN STROMATUMOREN

Title (fr)

MÉTHODES ET COMPOSITIONS POUR LE TRAITEMENT D'UNE TUMEUR STROMALE GASTRO-INTESTINALE (GIST)

Publication

EP 2951302 A4 20160720 (EN)

Application

EP 14746131 A 20140204

Priority

- US 201361760464 P 20130204
- US 2014014635 W 20140204

Abstract (en)

[origin: WO2014121264A1] The invention features nucleic acid constructs encoding chimeric immunoreceptors (CIRs) that are useful for treating a KIT+ associated disease in patients. In general, the CIRs contain an extracellular domain (e.g., a KIT-ligand (KL) or stem cell factor (SCF)) which interacts with and destroys KIT+ tumor cells, a transmembrane domain, and a cytoplasmic domain for mediating T cell activation (e.g., CD3 zeta and/or the domain of CD28). The invention also features the use of the nucleic acid constructs and/or host cells expressing CIRs in the treatment of a KIT+ associated disease, in particular gastrointestinal stromal tumor (GIST).

IPC 8 full level

C12N 15/00 (2006.01); **C07H 21/04** (2006.01)

CPC (source: EP US)

A61K 38/1774 (2013.01 - US); **A61K 38/19** (2013.01 - US); **A61K 45/06** (2013.01 - US); **A61P 1/00** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 35/02** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07K 14/475** (2013.01 - EP US); **C07K 14/52** (2013.01 - US); **C07K 14/7051** (2013.01 - EP US); **C07K 14/70521** (2013.01 - US); **C07K 2319/03** (2013.01 - EP US); **C07K 2319/74** (2013.01 - EP US)

Citation (search report)

- [Y] WO 2008045437 A2 20080417 - GEN HOSPITAL CORP [US], et al
- [Y] P. C.R. EMTAGE ET AL: "Second-Generation Anti-Carcinoembryonic Antigen Designer T Cells Resist Activation-Induced Cell Death, Proliferate on Tumor Contact, Secrete Cytokines, and Exhibit Superior Antitumor Activity In vivo: A Preclinical Evaluation", CLINICAL CANCER RESEARCH, vol. 14, no. 24, 15 December 2008 (2008-12-15), US, pages 8112 - 8122, XP055271919, ISSN: 1078-0432, DOI: 10.1158/1078-0432.CCR-07-4910
- [Y] SADELAIN M ET AL: "The promise and potential pitfalls of chimeric antigen receptors", CURRENT OPINION IN IMMUNOLOGY, ELSEVIER, OXFORD, GB, vol. 21, no. 2, 1 April 2009 (2009-04-01), pages 215 - 223, XP026058399, ISSN: 0952-7915, [retrieved on 20090325], DOI: 10.1016/J.COI.2009.02.009
- [Y] PATRIZIA DENTELLI ET AL: "'C-KIT, by interacting with the membrane-bound ligand, recruits endothelial progenitor cells to inflamed endothelium.'", BLOOD, 15 May 2007 (2007-05-15), pages 4264 - 4271, XP055271924, Retrieved from the Internet <URL:http://www.bloodjournal.org/content/bloodjournal/109/10/4264.full.pdf> [retrieved on 20160511], DOI: 10.1182/blood-2006-06-
- [Y] CHEN-GUANG BAI: "Stem cell factor-mediated wild-type KIT receptor activation is critical for gastrointestinal stromal tumor cell growth", WORLD JOURNAL OF GASTROENTEROLOGY, vol. 18, no. 23, 1 January 2012 (2012-01-01), CN, pages 2929, XP055274544, ISSN: 1007-9327, DOI: 10.3748/wjg.v18.i23.2929
- [T] NAKAZAWA YOZO ET AL: "Anti-proliferative effects of T cells expressing a ligand-based chimeric antigen receptor against CD116 on CD34(+) cells of juvenile myelomonocytic leukemia.", JOURNAL OF HEMATOLOGY & ONCOLOGY, vol. 9, 27, 16 March 2016 (2016-03-16), pages 1 - 11, XP002758093, ISSN: 1756-8722, DOI: 10.1186/s13045-016-0256-3
- See references of WO 2014121264A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014121264 A1 20140807; AU 2014212009 A1 20150820; AU 2014212009 B2 20200130; AU 2020202861 A1 20200521; CA 2900380 A1 20140807; CN 105378078 A 20160302; CN 105378078 B 20190301; EP 2951302 A1 20151209; EP 2951302 A4 20160720; EP 2951302 B1 20190102; HK 1222202 A1 20170623; JP 2016511636 A 20160421; JP 2019110911 A 20190711; US 2015361150 A1 20151217

DOCDB simple family (application)

US 2014014635 W 20140204; AU 2014212009 A 20140204; AU 2020202861 A 20200430; CA 2900380 A 20140204; CN 201480019952 A 20140204; EP 14746131 A 20140204; HK 16110453 A 20160902; JP 2015556224 A 20140204; JP 2019027372 A 20190219; US 201414763787 A 20140204